

SAMPLE

protein extraction

PROTEIN

protein separation (1D-SDS-PAGE)
enzymatic digestion (trypsin)

PEPTIDES

peptide separation (LC)
high sensitivity MS/MS (LTQ-FT)

MASS SPECTRA

database search (MASCOT)

GENOMIC DATABASE
(metagenomic vs. NR) ★

PEPTIDE MATCHES

filtering and validation
(SCAFFOLD vs. FDR) ★

PROTEIN IDs

SPECTRAL ABUNDANCE ★